Mr. Michael T. Davis Algebra II Delta & Eta	Creating Exponential Functions from Ordered Pairs In-Class March 9, 2015

Name: Mr. Davis

Directions: Use the table of ordered pairs, to determine an equation for the exponential function.

1. $f(x)=a(b)^x$

x	$f(x)$
-1	$\frac{5}{2}$
0	5
1	10
2	20

$f(x)=5(2)^x$

2. $g(x)=a(b)^x$

X	$g(x)$
-1	$\frac{1}{2}$
1	2
2	4
3	8

$g(x)=1(2)^x$

3. $f(x)=a(b)^x$

x	$f(x)$
-1	$\frac{-1}{12}$
1	-3
2	-18
3	-108

$f(x)=-\frac{1}{2}(6)^x$

4. $g(x)=a(b)^x$

X	$g(x)$
-1	$\frac{4}{3}$
1	12
2	36
3	108

$g(x)=4(3)^x$

5. $k(x) = a(b)^x$

x	$k(x)$
-1	$\frac{1}{8}$
1	2
2	8
3	32

$k(x) = \frac{1}{2}(4)^x$

6. $p(x) = a(b)^x$

x	$p(x)$
-1	$\frac{-1}{3}$
1	-3
2	-9
3	-27

$p(x) = -1(3)^x$

7. $k(x) = a(b)^x$

x	$k(x)$
-2	12
-1	6
2	$\frac{3}{4}$
3	$\frac{3}{8}$

$k(x) = 3(\frac{1}{2})^x$

8. $p(x) = a(b)^x$

x	$p(x)$
-2	-54
-1	-18
2	$\frac{-2}{3}$
3	$\frac{-2}{9}$ ← error corrected

$p(x) = -6(\frac{1}{3})^x$